

the PDA visually displaying at least part of the translated text.

24. The method of claim 23 further comprising:
prior to the PDA wirelessly transmitting, a microphone built into the PDA outputting electronic voice signals from speech input into the microphone.
25. The method of claim 23 further comprising:
prior to the PDA wirelessly transmitting, a microphone located within a stylus in the immediate vicinity of the PDA outputting electronic voice signals from speech input into the microphone.
26. The method of claim 25 wherein the electronic voice signals output by the microphone are wirelessly transmitted from the stylus to the PDA.
27. The method of claim 25 wherein the electronic voice signals output by the microphone are transmitted by at least one wire from the stylus to the PDA.

REMARKS

Applicants have carefully reviewed and considered the Office Action mailed on May 14, 2002, and the references cited therewith.

Claims 4-17 have been amended, and claims 18-27 have been added; as a result, claims 4-27 are now pending in this application.

For the convenience of the Examiner, Applicants' remarks concerning the claims will be presented in the same order in which the Examiner presented them in the Office Action.

Amendments to the Specification

Applicants have carefully reviewed and edited the entire specification for accuracy and consistency of terminology and grammar. Applicants have also corrected a number of typos. In addition, Applicants have made amendments to the specification to conform the written

description to the drawings and vice versa. No new matter has been added by way of these amendments.

Amendments to Claims 4-17

Each of claims 4-17 has been amended. No new matter has been introduced. The amendments to the claims are made for the purpose of clarification, and they are not intended to limit the scope of equivalents to which any claim element may be entitled.

Throughout all of the claims the acronym "PDA" has been substituted for the words "personal digital assistant", and the acronym "PC" has been substituted for the words "personal computer".

In independent claim 4, additional elements in the form of a "wireless transmitter" and a "wireless receiver" have been added to the PDA. Support for the "wireless transmitter" may be found in the original specification at page 5, lines 10-13, and support for the "wireless receiver" may be found at page 5, line 16-17. Support for added language that the touch screen display is "to enter information" may be found on page 11, lines 2-3. Support for added language that the touch screen display is to "visually display the translated voice information" may be found on page 3, lines 25-26 and on page 5, lines 10-13. Support for added language that the microphone of the stylus is to "output electronic voice signals" may be found on page 4, lines 25-27.

In dependent claims 5-7, amendments have been made for the sake of consistency of terminology.

In independent claim 8, additional elements have been added to the personal computer (PC) in the form of "speech recognition software", a "wireless receiver", and a "wireless transmitter". Support for "speech recognition software" may be found on page 5, lines 20-21, and on page 6, lines 22-24. Support for a "wireless receiver" may be found on page 5, lines 7-10, and support for a "wireless transmitter" may be found on page 5, lines 16-17. Further, the touch screen of the PDA is described as being "to enter information" and to "visually display the translated voice data", with support being provided as mentioned earlier. In addition, the PDA is described as comprising a "wireless receiver", with support provided as mentioned earlier.

Further, the microphone is described as being to "output the electronic voice signals", with support being provided as mentioned earlier.

In dependent claims 9-11, amendments have been made for the sake of consistency of terminology.

In independent claim 12, language has been amended for consistency of terminology. Support for "speech" may be found on page 6, lines 8-9, of the original specification, and support for "electronic voice signals" may be found on page 4, lines 26-27.

In dependent claim 13-14, the language has been revised to clarify what element is performing each operation.

In dependent claim 15, amendments have been made for the sake of consistency of terminology.

In independent claim 16, the language has been amended to clarify what element is performing each operation. The language has also been amended for the sake of consistency of terminology.

In dependent claim 17, amendments have been made for the sake of consistency of terminology. Although Applicants note with appreciation that this claim was indicated by the Examiner in the most recent Office Action to be allowable if amended to include all of the limitations of the base claim 16, Applicants prefer at this time to maintain that the base claim 16 is allowable over the prior art of record, while reserving the right at a later time to amend claim 17 as suggested by the Examiner.

New Claims 18-27

New claims 18-27 have been added to provide Applicants with additional protection to which Applicants are entitled. No new matter has been introduced.

New dependent claim 18 has been added to recite, independently of claim 4, that the microphone is located at a second end of the stylus.

New dependent claim 19 has been added to recite, independently of claim 4, that the stylus further includes a switch circuit to activate and deactivate the microphone and the transmitter of the stylus.

Similarly, new dependent claim 20 has been added to recite, independently of claim 8, that the microphone is located at a second end of the stylus, and new dependent claim 21 has been added to recite, independently of claim 8, that the stylus further includes a switch circuit to activate and deactivate the microphone and the transmitter of the stylus.

New dependent claim 22 is similar to dependent claim 17, but it omits the limitation concerning "playing the stored electronic voice signals".

New independent claim 23 is directed to a method in which a PDA wirelessly transmits electronic voice signals to a PC, the PC performs voice recognition processing on the electronic voice signals to produce translated text, the PC wirelessly transmits the translated text to the PDA, and the PDA visually displays at least part of the translated text. Support may be found in Figure 5 and the accompanying written description, as well as on page 3, line 29 through page 4, line 1.

New dependent claims 24-27 recite additional operations and/or limitations in relation to the method recited in independent claim 23.

New claims 23-27 are asserted to be patentable over the art of record, and notification of their allowability is earnestly requested.

**Rejection of Claims 4-6 and 8-15 Under 35 U.S.C. § 103(a) As Unpatentable
Over Ohashi in view of Applicant's Admitted Prior Art (AAPA)**

Claims 4-6, and 8-15 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Ohashi (U.S. Patent No. 5,581,783) in view of Applicant's Admitted Prior Art (AAPA).

Ohashi discloses a multimedia information capturing system comprising a stylus (1, FIG. 6a) having a microphone 71, a wireless transmitter 18, and a wireless receiver 75. The system additionally includes an associated "data processing unit" (3, FIG. 6b) that has a wireless transmitter 83, a wireless receiver 32, a voice-reproducing unit 83, and a speaker 84. Voice information captured with the stylus can be reproduced in the data processing unit's speaker 84.

The combination of Ohashi and AAPA fail to teach or suggest all of the claim limitations present in independent claims 4, 8, and 12, as amended, so a *prima facie* case of obviousness has not been established.

For example, regarding independent claim 4, Ohashi fails to disclose, among other things, a PDA having a wireless transmitter to transmit electronic voice signals to a personal computer, a wireless receiver to receive translated voice information from the PC, or a touch screen display to visually display the translated voice information.

Regarding independent claim 8, Ohashi fails to disclose, among other things, a PC having a processor, speech recognition software to instruct the processor to translate electronic voice signals into translated voice data, a wireless receiver to receive the electronic voice signals, and a wireless transmitter to transmit the translated voice data.

Regarding independent claim 12, Ohashi fails to disclose, among other things, translating electronic voice signals into translated voice data and storing the translated voice data in a PDA. In the context of various embodiments of Applicants' invention, the terms "translated voice data" and "translated voice information" are intended to refer to alpha-numeric text that has been converted from acoustic speech. Examples of such text are given in the paragraph beginning on page 3, line 29.

For the above reasons, claims 4, 8, and 12 should be found to be allowable over any combination of Ohashi and Applicants' Admitted Prior Art (AAPA), and Applicants respectfully request that the rejection of claims 4, 8, and 12 under 35 U.S.C. § 103(a) as being unpatentable over Ohashi in view of Applicants' Admitted Prior Art (AAPA) should be withdrawn.

Dependent claims 5-7, 9-11, and 13-15, which are based, directly or indirectly, upon independent claims 4, 8, and 12, respectively, and incorporate all of the limitations of their respective base claims, should also be allowable for the reasons presented above.

**Rejection of Claim 7 Under 35 U.S.C. §103(a) As Unpatentable
Over Ohashi in view of Applicant's Admitted Prior Art (AAPA)
and further in view of Epperson**

Claim 7 was rejected under 35 U.S.C. §103(a) as being unpatentable over Ohashi (U.S. Patent No. 5,581,783) in view of Applicant's Admitted Prior Art (AAPA) as applied to claims 1, 3-6, and 8-15 above, and further in view of Epperson (U.S. Patent No. 5,247,137). Applicants note that claims 1-3 were previously canceled in the Amendment & Response filed on July 10, 2001.

Epperson discloses a stylus (FIG. 1) having batteries 5,6. However, Epperson fails to disclose a stylus having a microphone or any provision for speech capture.

Ohashi was discussed previously.

The combination of Ohashi, AAPA, and Epperson fail to teach or suggest all of the claim limitations present in dependent claim 7, as amended, so a *prima facie* case of obviousness has not been established. Although Epperson discloses a "power supply located within the housing", not all of the claim limitations appearing in base claim 4 are taught or suggested by any combination of Ohashi, AAPA, and Epperson, as was mentioned earlier.

For the above reasons, dependent claim 7 should be found to be allowable over any combination of Ohashi, AAPA, and Epperson, and Applicants respectfully request that the rejection of claim 7 under 35 U.S.C. §103(a) as being unpatentable over Ohashi in view of AAPA, and further in view of Epperson should be withdrawn.

**Rejection of Claim 16 Under 35 U.S.C. §103(a) As Unpatentable
Over Ballantyne in view of Ditzik**

Claim 16 was rejected under 35 U.S.C. §103(a) as being unpatentable over Ballantyne et al. (U.S. Patent No. 5,867,821) in view of Ditzik (U.S. Patent No. 5,983,073).

Ballantyne discloses a PDA (10, FIG. 1) in wireless communication with a personal care station (PCS). A secure signature pen (104, FIG. 6) is used to authenticate a user of the PDA and accordingly grant access by the user to an associated computer network (col. 14, lines 51-61) when the pen is touched to the PDA.

Ditzik discloses a hand-held computer (FIG. 2) or base unit (100, FIGS. 3a and 3b) having a pen input means 7. The base unit can relay information wirelessly between an associated handset or earset and an external wide area communications network, and such information can include text, voice, graphics, video, and/or images (col. 13, lines 25-30).

The combination of Ballantyne and Ditzik fail to teach or suggest all of the claim limitations present in independent claim 16, as amended, so a *prima facie* case of obviousness has not been established. Among other things, neither reference discloses a stylus wirelessly transmitting electronic voice signals to a personal computer.

For the above reason, independent claim 12 should be found to be allowable over any combination of Ballantyne and Ditzik, and Applicants respectfully request that the rejection of claim 12 under 35 U.S.C. § 103(a) as being unpatentable over Ballantyne in view of Ditzik should be withdrawn.

Allowable Subject Matter

Claim 17 was objected to as being dependent upon a rejected base claim, but was indicated to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. As noted above, under the subheading "Amendment of Claims 4-17", although Applicants note with appreciation that claim 17 was indicated by the Examiner to be allowable if amended to include all of the limitations of the base claim 16, Applicants prefer at this time to assert that the base claim 16 is allowable over the prior art of record, while reserving the right at a later time to amend claim 17 as suggested by the Examiner.

Documents Cited But Not Relied Upon For This Office Action

Applicants need not respond to the assertion of pertinence stated for the references cited but not relied upon by the Office Action, because these references are not made part of the rejections in this Office Action. Applicants are expressly not admitting to this assertion and reserves the right to address the assertion should it form part of future rejections.

Conclusion

Applicants respectfully submit that claims 4-28 are in condition for allowance, and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney Walter W. Nielsen at 602/298-8920 or the below signed attorney to facilitate prosecution of this application.

Respectfully submitted,

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner of Patents, Washington, D.C. 20231, on this 14 day of August, 2002.

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